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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/006,451	NAKAJIMA, SATOSHI				
Office Action Summary	Examiner	Art Unit				
	Paulos M. Natnael	2614				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on	<u> </u>					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ Thi	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims  4)⊠ Claim(s) 1-104 is/are pending in the applicatio						
4a) Of the above claim(s) is/are withdray						
5) Claim(s) is/are allowed.	wir irom consideration.					
6)⊠ Claim(s) <u>1-104</u> is/are rejected.						
7) Claim(s) is/are objected to.	<u> </u>					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on		ved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No					
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)	- p and of 0.0.0. 33 120	WIND/OF IET.				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims **1-5**, **7-14**,**16-28**, **30-57**, **59-65**, **68-80**, **82-104** are rejected under 35 U.S.C. 102(e) as being anticipated by Van Ryzin, U.S. Pat. No. 6,127,941.

Considering claim 1, Van Ryzin discloses all claimed subject matter, note;

a) providing a remote control with a first collection of user interface displays for controlling the controllee electronic apparatus, is met by the disclosure that it is the object of the invention "to provide a remote control device with a graphical user interface for controlling audio/video devices and for obtaining additional information from a database, as requested from the remote control device, and for displaying the additional information on a display of the remote control device." (see col. 2, 19-24 and col. 6, line 27+)

b) receiving first control commands from said remote control, resulting from said provided first collection of user interface displays being used by a user of said

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remote control, is met by the disclosure "to provide a remote control device with a graphical user interface for controlling audio/video devices and for obtaining additional information from a database, <u>as requested from the remote control device</u>", (see col. 2, 19-24) and that "the request for detailed information may include, for example, a request for the TV listing or the VCR plus codes. The PC 136 retrieves the desired information from the database 142, 144 and transmits it to the remote control unit 100." (Col. 6, lines 27-31)

c) controlling operation of said controllee electronic apparatus in accordance with said received first control commands, is met by the disclosure that "Such information, displayed on the display 104, then becomes available to the user who may browse through the displayed TV listing, for example, or may record the program on the VCR 128 using the displayed VCR plus codes." (Col. 6, lines 31-35)

Considering claim 2, providing the remote control with a first collection of user interface displays having a plurality of display states and associated display state transition rules, is met by the disclosure that "Remote control unit 100 also includes user input section 106 including control keys for allowing the user to enter commands. Using the control keys, for example, the user can manipulate graphical representations (objects) on the display 104, that is, move the cursor up, down, right, left along the scroll-down menu, to select the desired function by clicking on the appropriate graphical object (icon), etc." (col. 3, lines 48-54; see also rejection of claim 1(a))

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Considering claim 3, providing the remote control with a first collection of user interface displays having a plurality of display cells.

See rejection of claim 2.

Considering claim 4, providing the remote control with the first collection of user interface displays through a selected one of a wireless optical connection in accordance with a wireless optical communication protocol, a wireless electro magnetic connection in accordance with a wireless communication protocol, and a wired electrical connection in accordance with a wired communication protocol, is met by RF transceiver 132 or 138, Figs. 1a and 2;

Considering claim 5, wherein the first collection of user interface displays is provided to the remote control through an infrared based optical connection, using an IrDA standard based wireless optical communication protocol, is met by the disclosure that "an infrared mode of communication may be used just as well to communicate between the remote control unit 100, multimedia system and PC 136." (col. 7, lines 15-20)

Considering claim 7, wherein the first collection of user interface displays is provided to the remote control through a wired electrical connection that is a selected one of a serial connection, a parallel connection, a USB connection, and a IEEE 1394 based connection, using a message based communication protocol, is met by the disclosure

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"The devices are interconnected via a serial control link which operates in the following manner. If commands are received by a particular device which are not directed thereto, this device merely passes the commands to the next device along the serial control link." (col. 4, 28-33)

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Considering claim 8, receiving said first control commands from the remote control through a selected one of a wireless optical connection in accordance with a wireless optical communication protocol, a wireless eletro-magnetic connection in accordance with a wireless communication protocol and a wired electrical connection in accordance with a wired communication protocol.

See rejection of claims 4-7.

Considering claim 9, wherein said first control commands comprise control commands for controlling a plurality of operation characteristics of said controllee electronic apparatus, and said plurality of operation characteristics comprise selected ones of power on/off, channel selections, audio volume, picture brightness, and picture color, is met by the disclosure that "For example, if the user selects the TV 120, then a pull-down menu appears on the display 104 with the following functions "increase volume", "decrease volume", "increase channel by 1", "decrease channel by 1" for example.

Another pull-down menu appears if more functions are selected, whereby the user may scroll through such additional menus while activating or deactivating desired operations on the TV 120." (col. 5, 44-51)





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Considering claim 10, providing said remote control with a second collection of user interface displays for controlling an auxiliary controllee electronic device coupled to said controllee electronic apparatus, is met by the disclosure that "In addition, the remote control device comprises a second transceiver for transmitting to the first transceiver a first signal corresponding to the processed command data such that at least one audio/video device is operative to perform the selected function, and for receiving from the first transceiver a second signal corresponding to status data indicating whether the selected function has been performed." (col. 2, lines 49-56)

Considering claim **11**, providing the remote control with a second collection of user interface displays having a plurality of display states and associated display state transition rules.

See rejection of claim 2;

Considering claim **12**, providing the remote control with a second collection of user interface displays having a plurality of display cells.

See rejection of claim 3.

Considering claim **13**, providing the remote control with the second collection of user interface displays through a selected one of a wireless optical connection in accordance with a wireless optical communication protocol, a wireless eletro-magnetic connection in

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accordance with a wireless communication protocol, and a wired electrical connection in accordance with a wired communication protocol.

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. See rejection of claim 4;

Considering claim 14, receiving from said auxiliary controllee electronic device specifications of the substantive contents of said second collection of user interface displays; and generating said second collection of user interface displays in accordance with said received specifications, is met by the disclosure that "updates from new devices may be performed via a cable connecting the remote control unit 100 to the PC 136 for downloading new specifications from some storage medium or database, as provided by the manufacturers…" (col. 7, lines 10-20)

Considering claim **16**, receiving the specifications of the substantive contents of said second collection of user interface displays from the auxiliary controllee electronic device through a selected one of a wireless optical connection in accordance with a wireless optical communication protocol, a wireless eletro-magnetic connection in accordance with a wireless communication protocol, and a wired electrical connection in accordance with a wired communication protocol.

Regarding claim 16, see rejection of claim 4.

Considering claim 17, wherein the specifications of the substantive contents of said second collection of user interface displays are received from the auxiliary controllee

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electronic device through a video connection, using a message based communication protocol embedded within a video protocol.

See rejection of claims 14 and 15.

Considering claim **18**, receiving second control commands from said remote control, resulting from said provided second collection of user interface displays being used by said user of said remote control; and controlling operation of said auxiliary controllee electronic device in accordance with said received second control commands.

See rejection of claims 4 and 16.

Considering claim **19**, receiving said second control commands from the remote control through a selected one of a wireless eletro-magnetic connection in accordance with a wireless communication protocol, a wireless eletro-magnetic connection in accordance with a wireless communication protocol, and a wired electrical connection in accordance with a wired communication protocol.

See rejection of claims 4.

Considering claim **20**, relaying the received second commands to the auxiliary controllee electronic device, is met by the disclosure that "The devices are interconnected via a serial control link which operates in the following manner. If commands are received by a particular device which are not directed thereto, this device merely passes the commands to the next device along the serial control link.

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The protocol is designed in such a way that each device either responds to the commands or passes them through. Similarly, when a particular device sends information via the serial control link, other devices simply function as pass-through components. (col. 4, lines 28-33)

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Considering claim **21**, relaying the received second control commands through a selected one of a wireless optical connection in accordance with a wireless optical communication protocol, a wireless eletro-magnetic connection in accordance with a wireless communication protocol, and a wired electrical connection in accordance with a wired communication protocol.

See rejection of claim 4.

Considering claim **22**, wherein said auxiliary controllee electronic device is a selected one of a videocassette recorder (VCR), a digital versatile disk (DVD) 3 player, a home theatre audio control unit, and a video camera, is met by VCR 128, DAT 126, or DVD 124, Figs. 1a and 2.

Considering claim 23, control commands for controlling a plurality of operation characteristics of said auxiliary controllee electronic device, and said plurality of operation characteristics comprise selected ones of power on/off, play, fast forward, reverse, pause, stop, audio volume, picture brightness, and picture color.

See rejection of claim 9.

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Considering claim **24**, the method of claim 1, wherein said controllee electronic apparatus is a TV, is met by TV 120, Figs. 1a and 2;

Considering claim 25, the method of claim 1, wherein said controllee electronic apparatus is a selected one of a set top box, a DVD player, a VCR, is met by DVD 124, figs. 1a and 2;

Considering claim **26**, providing specifications for a collection of user interface displays for controlling the auxiliary controllee electronic device to the primary controllee electronic device to generate and provide the collection of user interface displays to a remote control; receiving control commands from said remote control, resulting from said provided collection of user interface displays being used by a user of said remote control; and controlling operation of said auxiliary controllee electronic device in accordance with said received control commands.

Regarding claim 26, see rejection of claim 1.

Considering claim **27**, providing specifications for a collection of user interface displays having a plurality of display states and associated display state transition rules.

See rejection of claim 2.

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Considering claim 28, providing specifications for a collection of user interface displays

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having a plurality of display cells.

See rejection of claim 3.

Considering claim 30, providing the specifications of the collection of user interface

displays from the auxiliary controllee electronic device to the primary controllee

electronic device through a selected one of a wireless optical connection in accordance

with a wireless optical communication protocol, a wireless eletro7 magnetic connection

in accordance with a wireless communication protocol, a wired electrical connection in

accordance with a wired communication protocol.

See rejection of claim 4.

Considering claim 31, wherein the specifications for the collection of user interface

displays are provided from the auxiliary controllee electronic device to the primary

controllee electronic device through a video connection, using a message based

communication protocol embedded within a video protocol.

See rejection of claim 17.

Considering claim 32, receiving the control commands directly from the remote control

through a selected one of a wireless optical connection in accordance with a wireless

optical communication protocol, a wireless eletro-magnetic connection in accordance

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with a wireless communication protocol, and a wired electrical connection in accordance with a wired communication protocol.

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See rejection of claim 4.

Considering claim **33**, receiving the control commands indirectly via said primary controllee electronic device through a selected one of a wireless optical connection in accordance with a wireless optical communication protocol, a wireless eletro-magnetic connection in accordance with a wireless communication protocol, and a wired electrical connection in accordance with a wired communication protocol.

See rejection of claim 4.

Considering claim **34**, wherein said auxiliary controllee electronic device is a selected one of a videocassette recorder (VCR), a digital versatile disk (DVD) player, a home theatre audio control unit, and a video camera, is met by DVD 124, Figs. 1a and 2.

Considering claim **35**, control commands for controlling a plurality of operation characteristics of said auxiliary controllee electronic device, and said plurality of operation characteristics comprise selected ones of power on/off, play, fast forward, reverse, pause, stop, audio volume, picture brightness, and picture color.

See rejection of claim 9.

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Considering claim **36**, wherein said primary controllee electronic device is a TV, is met by TV 120, figs. 1a and 2;

Considering claim **37, t**he method of claim 26, wherein said primary controllee electronic device is a selected one of a set top box, a DVD player and VCR player, is met by DVD 124, figs. 1A and 2.

Considering claim **38**, receiving from a primary controllee electronic device a first collection of user interface displays for controlling a primary controllee electronic device; facilitating usage of the first collection of user interface displays by a user to control the primary controllee electronic device; and providing first control commands to the primary controllee electronic device 7 to control the primary controllee electronic device in response to said usage of the 8 first collection of user interface displays.

As for Claim 38, see rejection of claim 1;

Considering claim **39**, receiving a first collection of user interface displays having a plurality of display states and associated display state transition rules.

See rejection of claim 27.

Considering claim **40**, receiving a first collection of user interface displays having a plurality of display cells.

See rejection of claim 28.

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Considering claim **41**, receiving the first collection of user interface displays to control the primary controllee electronic device through a selected one of a wireless optical connection in accordance with a wireless optical communication protocol, a wireless eletro-magnetic connection in accordance with a wireless communication protocol, a wired electrical connection in accordance with a wired communication protocol.

See rejection of claim 30.

Considering claim **42**, providing the first control commands to the primary controllee electronic device through a selected one of a wireless optical connection in accordance with a wireless optical communication protocol, a wireless eletro-magnetic connection in accordance with a wireless communication protocol, a wired electrical connection in accordance with a wired communication protocol.

See rejection of claim 30.

Considering claim **43**, control commands for controlling a plurality of operation characteristics of said primary controllee electronic device, and said plurality of operation characteristics comprise selected ones of power on/off, channel selections, audio volume, picture brightness, and picture color.

See rejection of claim 9 and 35.

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Considering claim **44**, receiving a second collection of user interface displays from the primary controllee electronic device for controlling an auxiliary controllee electronic device coupled to the primary controllee electronic device; facilitating usage of the second collection of user interface displays by a user to remotely control the auxiliary controllee electronic device; and providing second control commands either directly or indirectly to the auxiliary controllee electronic device to control the auxiliary controllee electronic device in response to said usage of the second collection of user interface displays.

See rejection of claim 16.

Considering claim **45**, providing a second collection of user interface displays having a plurality of display states and associated display state transition rules.

See rejection of claim 2;

Considering g claim **46**, providing a second collection of user interface displays having a plurality of display cells.

See rejection of claim 3.

Considering claim 47, providing the second collection of user interface displays from the primary controllee electronic device to the remote control through a selected one of a wireless optical connection in accordance with a wireless optical communication protocol, a wireless eletro-magnetic connection in accordance with a wireless

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communication protocol, a wired electrical connection in accordance with a wired communication protocol.

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See rejection of claim 4.

Considering claim **48**, providing the second control commands through a selected one of a wireless optical connection in accordance with a wireless optical communication protocol, a wireless eletro-magnetic connection in accordance with a wireless communication protocol, and a wired electrical connection in accordance with a wired communication protocol.

See rejection of claim 4.

Considering claim 49, the method of claim 44, wherein said auxiliary controllee electronic device 2 is a selected one of a videocassette recorder (VCR), a digital versatile disk (DVD) 3 player, a home theatre audio control unit, and a video camera.

See rejection of claim 22.

Considering claim **50**, the method of claim 49, wherein said second control commands comprise control commands for controlling a plurality of operation characteristics of said auxiliary controllee electronic device, and said plurality of operation characteristics comprise selected ones of power on/off, play, fast forward, reverse, pause, stop, audio volume, picture brightness, and picture color.

See rejection of claim 9.

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Considering claim **51**, the method of claim 38, wherein said primary controllee electronic device is a TV.

See rejection of claim 22.

Considering claim **52**, the method of claim 38, wherein said primary controllee electronic device is a selected one of a set top box, a DVD player and a VCR player.

See rejection of claim 25.

Considering claim 53,

a) first means to provide a remote control with a first collection of user interface displays for controlling the controllee electronic apparatus, and to receive first control commands from said remote control, resulting from said provided first collection of user interface displays being used by a user of said remote control, is met by PC 136, figs. 1A and 2; b) second means to control operation of said controllee electronic apparatus in accordance with said received first control commands, is met by Remote Control 100, figs. 1A and 2; (See also rejection of claim 1)

Considering claim **54**, wherein said first means provides the remote control with a first collection of user interface displays having a plurality of display states and associated display state transition rules.

See rejection of claim 2.

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Considering claim **55**, the apparatus of claim 53, wherein said first means provides the

remote control with a first collection of user interface displays having a plurality of

display cells.

See rejection of claim 3;

Considering claim **56**, wherein said first means provides the remote control with the first

collection of user interface displays through a selected one of a wireless optical

connection in accordance with a wireless optical communication protocol, a wireless

eletro-magnetic connection in accordance with a wireless communication protocol, and

a wired electrical connection in accordance with a wired communication protocol.

See rejection of claim 4.

Considering claim 57, wherein said first means provides the remote control with the first

collection of user interface displays through an infrared based optical connection, using

an IrDA standard based wireless optical communication protocol.

See rejection of claim 5.

Considering claim 59, wherein said first means provides the remote control with the first

collection of user interface displays through a wired electrical connection that is a

selected one of a serial connection, a parallel connection, a USB connection, and a

IEEE 1394 based connection, using a message based communication protocol.

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See rejection of claim 7.

Considering claim **60**, wherein said first means receives said first control commands from the remote control through a selected one of a wireless optical connection in accordance with a wireless optical communication protocol, a wireless eletro-magnetic connection in accordance with a wireless communication protocol and a wired electrical connection in accordance with a wired communication protocol.

See rejection of claim 8.

Considering claim **61**, wherein said first control commands comprise control commands for controlling a plurality of operation characteristics of said controllee electronic apparatus, and said plurality of operation characteristics comprise selected ones of power on/off, channel selections, audio volume, picture brightness, and picture color.

See rejection of claim 9.

Considering claim **62**, wherein said first means further provides said remote control with a second collection of user interface displays for controlling an auxiliary controllee electronic device coupled to said controllee electronic apparatus.

See rejection of claim 10;

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Considering claim **63**, wherein said first means provides the remote control with a second collection of user interface displays having a plurality of display states and associated display state transition rules.

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See rejection of claims 2 and 10;

Considering claim **64**,wherein said first means provides the remote control with a second collection of user interface displays having a plurality of display cells.

See rejection of claims 3 and 10.

Considering claim **65**, wherein said first means provides the remote control with the second collection of user interface displays through a selected one of a wireless optical connection in accordance with a wireless optical communication protocol, a wireless eletro-magnetic connection in accordance with a wireless communication protocol, and a wired electrical connection in accordance with a wired communication protocol.

See rejection of claim 4;

Considering claim **68**, wherein said third means receives the specifications from the auxiliary controllee electronic device through a selected one of a wireless optical connection in accordance with a wireless optical communication protocol, a wireless eletro-magnetic connection in accordance with a wireless communication protocol, and a wired electrical connection in accordance with a wired communication protocol.

See rejection of claim 4.

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Considering claim **69**, wherein said third means receives the specifications from the auxiliary controllee electronic device through a video connection, using a message based communication protocol embedded within a video protocol.

See rejection of claim 17.

Considering claim **70**, wherein said first means further receives second control

Commands from said remote control, resulting from said provided second collection of
user interface displays being used by said user of said remote control; and said second
and third means further cooperate to control operation of said auxiliary controllee
electronic device in accordance with said received second control commands.

See rejection of claim 16.

Considering claim 71, wherein said third means receives said second control commands from the remote control through a selected one of a wireless electro magnetic connection in accordance with a wireless communication protocol, a wireless eletro-magnetic connection in accordance with a wireless communication protocol, and a wired electrical connection in accordance with a wired communication protocol.

See rejection of claim 4.

Considering claim **72**, wherein said second and third means cooperate to relay the received second commands to the auxiliary controllee electronic device.

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See rejection of claim 20.

Considering g claim 73, wherein said second and third means cooperate to relay the received second control commands through a selected one of a wireless optical connection in accordance with a wireless optical communication protocol, a wireless eletro-magnetic connection in accordance with a wireless communication protocol, and a wired electrical connection in accordance with a wired communication protocol.

See rejection of claim 4;

Considering claim 74, wherein said auxiliary controllee electronic device is a selected one of a videocassette recorder (VCR), a digital versatile disk (DVD) player, a home theatre audio control unit, and a video camera.

See rejection of claim 22.

Considering claim 75, wherein said second control commands comprise control commands for controlling a plurality of operation characteristics of said auxiliary controllee electronic device, and said plurality of operation characteristics comprise selected ones of power on/off, play, fast forward, reverse, pause, stop, audio volume, picture brightness, and picture color.

See rejection of claim 9.

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Considering claim 76, wherein said controllee electronic apparatus is a 2 TV, is met by

TV 120, figs. 1a and 2;

Considering claim 77, wherein said controllee electronic apparatus is a selected one of

a set top box, a DVD player, a VCR.

See rejection of claim 25;

Considering claim 78, first means to provide specifications for a collection of user

interface displays for controlling the auxiliary controllee electronic device to a primary

controllee electronic device for the primary controllee electronic device to generate

and provide the collection of user interface displays to a remote control; second means

to receive control commands from said remote control, resulting from said provided

collection of user interface displays being used by a user of said remote control; and

third means to control operation of said auxiliary controllee electronic device in

accordance with said received control commands.

Regarding claim 78, see rejection of claims 1 and 53.

Considering claim 79, wherein said first means provides to said primary controllee

electronic apparatus, specifications for a collection of user interface displays having a

plurality of display states and associated display state transition rules.

See rejection of claim 2;

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Considering claim 80, wherein said first means provides to said primary controllee apparatus, specifications for a collection of user interface displays having a plurality of display cells.

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See rejection of claim 3;

Considering claim 82, wherein said first means provides the specifications of its collection of user interface displays to the primary controllee electronic device through a selected one of a wireless optical connection in accordance with a wireless optical communication protocol, a wireless eletro magnetic connection in accordance with a wireless communication protocol, a wired electrical connection in accordance with a wired communication protocol.

See rejection of claim 4.

Considering claim 83, wherein said first means provides the specifications for its collection of user interface displays to the primary controllee electronic device through a video connection, using a message based communication protocol embedded within a video protocol.

See rejection of claim 17.

Considering claim 84, wherein said second means receives the control commands directly from the remote control through a selected one of a wireless optical connection in accordance with a wireless optical communication protocol, a wireless eletro-

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magnetic connection in accordance with a wireless communication protocol, and a

wired electrical connection in accordance with a wired communication protocol.

See rejection of claim 4.

Considering claim 85, wherein said second means receives the control commands

indirectly via said primary controllee electronic device through a selected one of a

wireless optical connection in accordance with a wireless optical communication

protocol, a wireless eletro-magnetic connection in accordance with a wireless

communication protocol, and a wired electrical connection in 6 accordance with a wired

communication protocol.

See rejection of claim 4.

Considering claim 86, the apparatus of claim 78, wherein said apparatus is a selected

one of a videocassette recorder (VCR), a digital versatile disk (DVD) player, a home

theatre audio control unit, and a video camera.

See rejection of claim 22;

Considering claim 87, control commands for controlling a plurality of operation

characteristics of said auxiliary controllee electronic apparatus, and said plurality of

operation characteristics comprise selected ones of power on/off, play, fast forward,

reverse, pause, stop, audio volume, picture brightness, and picture color.

See rejection of claim 9.

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Considering claim 88, wherein said primary controllee electronic device is a TV.

See rejection of claim 24.

Considering claim 89, wherein said primary controllee electronic device is a selected one of a set top box, a DVD player and VCR player.

See rejection of claim 22 or 25;

Considering claim 90, first means to receive from a primary controllee electronic device a first collection of user interface displays for controlling a primary controllee electronic device; second means to facilitate usage of the first collection of user interface displays by a user to control the primary controllee electronic device; and third means to provide first control commands to the primary controllee electronic device to control the primary controllee electronic device to control the primary controllee electronic device in response to said usage of the first collection of user interface displays.

See rejection of claim 1;

Considering claim 91, the apparatus of claim 90, wherein said first means receives from the primary controllee electronic device a first collection of user interface displays having a plurality of display states and associated display state transition rules.

See rejection of claim 2;

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Considering claim 92, the apparatus of claim 90, wherein said first means receives from the primary controllee electronic device a first collection of user interface displays having a plurality of display cells.

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See rejection of claim 3;

Considering claim 93, wherein said first means receives the first collection of user interface displays from the primary controllee electronic device through a selected one of a wireless optical connection in accordance with a wireless optical communication protocol, a wireless eletro-magnetic connection in accordance with a wireless communication protocol, a wired electrical connection in accordance with a wired communication protocol.

See rejection of claim 4;

Considering claim 94, wherein said third means provides the first control commands to the primary controllee electronic device through a selected one of a wireless optical connection in accordance with a wireless optical communication protocol, a wireless eletro-magnetic connection in accordance with a wireless communication protocol, a wired electrical connection in accordance with a wired communication protocol.

See rejection of claim 4;

Considering claim 95, wherein said first control commands comprise control commands for controlling a plurality of operation characteristics of said primary controllee electronic

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device, and said plurality of operation characteristics comprise selected ones of power

on/off, channel selections, audio volume, picture brightness, and picture color.

See rejection of claim 9;

Considering claim 96, wherein said first means further receives a second collection of

user interface displays from the primary controllee electronic device for controlling an

auxiliary controllee electronic device coupled to the primary controllee electronic device;

said second means further facilitates usage of the second collection of user interface

displays by a user to remotely control the auxiliary controllee electronic device; and said

third means further provides second control commands either directly or indirectly to the

auxiliary controllee electronic device to control the auxiliary controllee electronic device

in response to said usage of the second collection of user interface displays.

See rejection of claim 1;

Considering claim 97, wherein said first means receives from the primary controllee

electronic apparatus a second collection of user interface displays having a plurality of

display states and associated display state transition rules.

See rejection of claim 2;

Considering claim 98, wherein said first means receives from the primary controllee

electronic apparatus a second collection of user interface displays having a plurality of

display cells.

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See rejection of claim 3;

Considering claim **99**, wherein said first means receives said second collection of user interface displays from the primary controllee electronic device through a selected one of a wireless optical connection in accordance with a wireless optical communication protocol, a wireless eletro-magnetic connection in accordance with a wireless communication protocol, a wired electrical connection in accordance with a wired communication protocol.

See rejection of claim 4.

Considering claim **100**, wherein said third means provides the second control commands through a selected one of a wireless optical connection in accordance with a wireless optical communication protocol, a wireless eletro-magnetic connection in accordance with a wireless communication protocol, and a wired electrical connection in accordance with a wired communication protocol.

See rejection of claim 5;

Considering claim **101**, wherein said auxiliary controllee electronic device is a selected one of a videocassette recorder (VCR), a digital versatile disk (DVD) player, a home theatre audio control unit, and a video camera.

See rejection of claim 22;

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Considering claim **102**, wherein said second control commands comprise control commands for controlling a plurality of operation characteristics of said auxiliary controllee electronic device, and said plurality of operation characteristics comprise selected ones of power on/off, play, fast forward, reverse, pause, stop, audio volume, picture brightness, and picture color.

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See rejection of claim 9;

Considering claim 103, wherein said primary controllee electronic device is a TV.

See rejection of claim 24:

Considering claim **104**, wherein said primary controllee electronic device is a selected one of a set top box, a DVD player and a VCR player.

See rejection of claim 25.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims **6,15, 29, 58, 66, 67, 81** rejected under 35 U.S.C. 103(a) as being unpatentable over Van Ryzin.

Considering claim 6, the method of claim 4, wherein the first collection of user interface displays is provided to the remote control through a wireless eletro-magnetic communication connection, using a selected one of a Bluetooth and an IEEE 802.11 standard based wireless communication protocol.

Regarding claim 6, Van Ryzin does not specifically disclose Bluetooth and an IEEE 802.11 standard based wireless communication protocol. Van Ryzin however, discloses that different types of communication protocol may be used. Nevertheless, the Examiner takes Official Notice in that the IEEE 802.11 standard is well-known in the art and, therefore, it would have been obvious to the skilled in the art at the time the invention was made to modify the system of Van Ryzin to provide the advantage of using another type of communication protocol so that the system is made versatile and more useful to the user.

Considering claim **15**, the method of claim 14, wherein said receiving of specifications of the substantive contents of said second collection of user interface displays comprises receiving from said auxiliary controllee electronic device an XML based specification.

Regarding claim 15, Van Ryzin does not specifically disclose XML based specification. Van Ryzin discloses "updates from new devices may be performed via a cable connecting the remote control unit 100 to the PC 136 for downloading new

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specifications from some storage medium or database, as provided by the manufacturers..." (col. 7, lines 10-20)

However, the Examiner here takes Official Notice in that the extensible markup language (XML) is well-known in the art and, therefore, it would have been obvious to the skilled in the art at the time the invention was made to modify the system of Van Ryzin by providing the XML standard in order to make it easier to create a better graphical user interface.

Considering claim **29**, the method of claim 26, wherein said providing of specifications for a collection of user interface displays for controlling the auxiliary controllee electronic device comprises providing an XML based specification specifying the substantive contents of the collection of user interface displays.

See rejection of claim 15.

Considering claim 58, the apparatus of claim 56, wherein said first means provides the remote control with the first collection of user interface displays through a wireless eletro magnetic communication connection, using a selected one of a Bluetooth and an IEEE 802.11 standard based wireless communication protocol

See rejection of claim 6.

Considering claim 66, the apparatus of claim 62, further comprising third means to receive from said auxiliary controllee electronic device specifications of the substantive

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generate said second collection of user interface displays in accordance with said

contents of said second collection of user interface displays; and fourth means to

received specifications.

See rejection of claim 15.

Considering claim 67, the apparatus of claim 66, wherein said third means receives

from said auxiliary controllee electronic device an XML based specification.

See rejection of claim 6.

Considering claim 81, the apparatus of claim 78, wherein said first means provides to

said primary controllee electronic apparatus, an XML based specification specifying the

substantive contents of the collection of user interface displays.

See rejection of claim 6.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. Lehman et al. U.S. pat. No. 6,292,186 discloses a universal

information appliance (UIA) such as can be embodied by a personal digital assistant

(PDA) can receive an application written in a new "MoDAL" language, parse the

application to divide it into binary-formatted GUI elements, and then dynamically render

a GUI interface on the display of the UIA based on the GUI elements parsed out of the

application.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paulos M. Natnael whose telephone number is (703) 305-0019. The examiner can normally be reached on 6:30am -3pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on (703) 305-4795. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4750.

Paulos Natnael PMV September 6, 2003 MICHAEL H. LEE PRIMARY EXAMINER